OFA Kameleon UG 5/8/03 3:22 PM Page 1

ONE FOR ALL®

kameleon™

8-Device
Universal Remote Control

URC-9960



User's Guide

TABLE OF CONTENTS

Introduction 2
Installing Batteries 3
How Kameleon™ Works 3
Features And Function 4
Key Charts 4
Device Table 7
Adjusting Brightness 8
Programming Device Control 8
Programming A DVD/VCR Player Combo 10
Searching For Your Code 11
Checking The Codes 11
Using The Home Theater Mode 12
Control Organization 12
Programming The Home Theater Mode 13
Changing Volume Lock 14
Programming Volume Lock 14
Programming Volume Unlock 15
Using Macros 16
Programming A Favorite Channel Macro 16
Programming A Master Power Macro In The Home Theater Mode 16
Clearing A Macro 17
Using Learning 18
Learning Precautions 18
Programming A Learning Key 18
Deleting A Single Learned Key 19
Deleting All Learned Keys In A Specific Mode 19
Reassigning Device Keys 20
Using Keymover 20
Programming Keymover 20
Restoring A Single Keymoved Key 21
Restoring All Keymoved Keys In A Single Mode 21
Using Channel Scan 22
Programming Favorite Channel Scan 22
Restoring Factory Default Settings 23
Clearing All Custom Programming 23
Manufacturer's Codes 24
Setup Codes For Audio Amplifiers 24
Setup Codes For Audio Receivers 24
Setup Codes For Cable Boxes 24
Setup Codes For CD Players 25
Setup Codes For DVD Players 25
Setup Codes For DVD Player/VCR Combos 26
Setup Codes For Home Automation 26
Setup Codes For PVRs 26
Setup Codes For Satellite Receivers 26
Setup Codes For Satellite Receiver/PVR Combos 26
Setup Codes For TVs 26
Setup Codes For TV/DVD Player Combos 28
Setup Codes For TV/VCR Combos 28
Setup Codes For VCRs 28
Setup Codes For Video Accessories 30
About Upgrading 30
Upgrade Procedure 30
Upgrade Exclusions 30
Troubleshooting 31
Device Mode Screens 32
Customer Support 41
Instruction To The User 41
Limited Warranty 41
Battery Use And Safety 42
Additional Information 42

INTRODUCTION

The OFA Kameleon™ 8-Device Remote (URC-9960) is a revolutionary universal remote control that uses Universal Electronics' Kameleon Technology. Moreover, it allows you to consolidate the clutter of all of your original remote controls into one easy-to-use product. Advanced features include:

- **Kameleon Technology** – dynamic menu screens that respond to device selection and illuminate only active keys
- **Home Theater Mode** – a cusxqw-nA4qvedbtdbqVSwq
- yKVeamVecgsm
- m.d.s/.L.m.Ve/dE.k/.hg-/.TKE

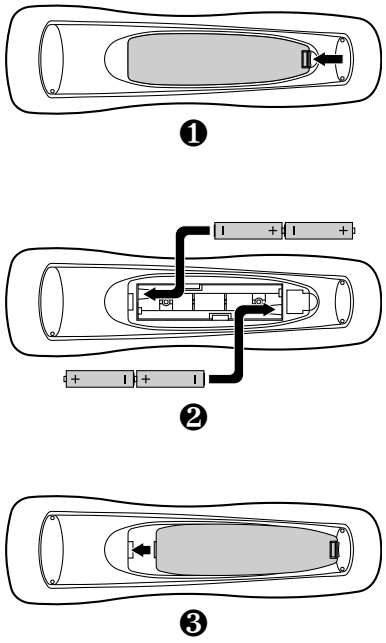
eq–bwvp•bV1bBwidxSBwc•bq–Pwe41–

ac••bb–Pwed•bqx4wl•1qVBs

- VenvVe.L

OFA Kameleon UG 5/8/03 3:22 PM Page 3

INSTALLING BATTERIES



1. On the remote control's back, push the tab and lift off the battery cover.
2. Obtain four (4) new AAA alkaline batteries. Match the + and – marks on the batteries to the + and – marks in the battery case, then insert the new batteries.
3. Press the battery cover back into place. The tab should click when the cover is locked.
4. If batteries are inserted correctly, the display will turn on and show all keys. If a key is not pressed after 7 seconds, the display will turn off.

***NOTE**: The batteries will need replacement if one of the following conditions occurs:*

1. *Pressing any key turns on all keys and icons.*
2. *The remote control no longer operates and the display flashes on and off continously.*

See "Battery Use And Safety" on page 42 for additional information.

HOW KAMELEON™ WORKS

Kameleon™ allows wireless controllers to dynamically change their appearance and functionality, to match the home entertainment environment. Moreover, this technology provides unparalleled ease-of-use and superior control by delivering a uniquely intuitive, graphical interface that intelligently illuminates only the active keys.

The OFA Kameleon 8-Device Remote uses Kameleon technology to provide the versatility of an LCD remote control with the feel of a traditional push button unit. The result is a stunning, bright display with engaging animation and touch-sensitive graphics for the user.

The remote control includes convenient *Menu Driven* programming. The displays are divided into two types of interactive screens: *Device Menus* for normal remote control use, and *Programming Menus* for feature setup. Acting like it namesake, Kameleon changes the *Device Menu* for the device being selected. For example, selecting TV displays a main menu that contains channel selection, volume control, and a keypad. However, selecting a DVD player still displays a menu with those same keys as the TV, but now navigation keys and transport controls are added for the DVD device.

Several devices have additional menus that can be accessed using **SCROLL** (see *Device Menu Screens*, starting on page 32). For example, TV has three menus: a main menu with keys for a general-purpose TV, a second menu screen that adds navigation keys and removes **FORMAT**, **INPUT** and **ENTER** keys, and a third menu screen that adds **INPUT**, **ENTER**, and **PIP** keys. Depending on desired features, a user has the flexibility to use any menu screen that works best for the selected device.

***NOTE**: The **AUX**, **CD**, **DVD**, and **PVR** modes do not have additional menu screens even though **SCROLL** is displayed.*

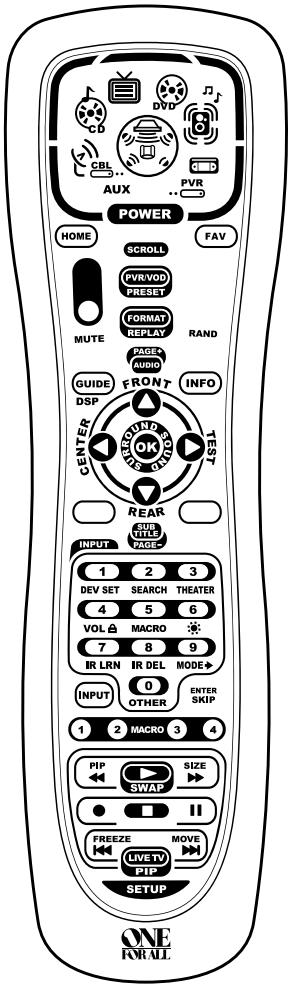
Animated key graphics also provided enhanced operational feedback, so the user can easily see what mode is active and when the commands are communicating with a device. The end result of Kameleon technology is a simple, elegant, and intelligent way of organizing a large number of remote control keys for eight different devices in a relatively small case.

FEATURES AND FUNCTIONS

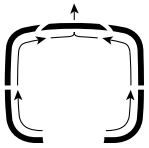
Use the illustration below to locate features on the OFA Kameleon 8-Device Remote (URC-9960) and then refer to the *Key Charts* (starting on the right) to learn how they function.

***NOTE**: The illustration shows all remote control keys. In actual operation, only active keys used by the selected device are displayed and non-active keys are hidden.*

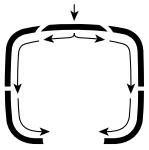
To find out what type of devices can be controlled by each device key after programming, see the *Device Table* on page 7.



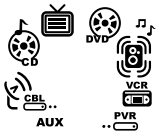
KEY CHARTS



When a key is pressed, the **IR Segments** will animate. Outgoing animation (see arrows) indicates the remote control is sending IR signals to a selected device.



Incoming animation (see arrows) indicates the remote control is receiving IR signals from a device being learned (see *Using Learning* on page 17).



Press a **Device Key** once to select a desired home entertainment device to control (e.g., **DVD**). When selected, the **Device Key** will animate to indicate it is currently active. Also see the *Device Table* on page 7.



After programming, press the **Home Theater** key once to select the home theater mode (see *Using The Home Theater Mode* on page 12).

POWER — Press **POWER** once to turn on or off a selected device.

HOME — During programming, the **HOME** key will appear. Use it to exit the program screen or to return to the last-selected device key screen.

FAV — In the **AUX**, **CBL/SAT**, and **TV** modes, use **FAV** to scan through all channels, or after programming, to scan through 10 favorite channels.

SCROLL — In the **AUX**, **CBL/SAT**, **TV**, **AUDIO**, and **VCR** modes, use **SCROLL** to view additional key screens for the selected device.



Use **VOL** ▲ (or **VOL**▼) to raise (or lower) the sound volume for the selected device (also see *Changing Volume Lock* on page 14).

Press **MUTE** once to turn the sound off or on.

PVR/VOD

In the **AUX** and **CBL/SAT** modes, use **PVR/VOD** to access PVR/VOD programs (if available on your cable or satellite service).

PRESET

In the **AUDIO** mode, use **PRESET** to access preset stations on your audio device.

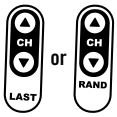
FORMAT

In the **TV** mode, use **FORMAT** to change the aspect ratio or zoom (if feature is available on your TV).

REPLAY

In the **DVD** or **PVR** mode, press **REPLAY** once to replay a DVD chapter or a recorded program on your PVR (or DVR).

In the **CBL/SAT** and **AUX** modes, press **SCROLL** once to display **REPLAY** and then press **REPLAY** once to replay a VOD program (if available on your cable or satellite service).



Use **CH** ▲ (or **CH** ▼) to select the next higher (or lower) channel.

In all modes except **CD**, **DVD**, and **PVR**, press **LAST** once to recall the last channel.

In the **PVR** mode, use **LAST** to select live or recorded video.

In the **CD** or **DVD** modes, press **RAND** to play random tracks or chapters.

In the **AUX** and **CBL/SAT** modes, use **PAGE+** or **PAGE-** to page up or down through channels in the program guide.

In the **DVD** mode, press **AUDIO** once to access DVD audio formats (if available).

GUIDE

In all modes except **AUDIO**, use **GUIDE** to display your selected device's program guide or setup menu.

DSP

In the **AUDIO** mode, use **DSP** to access DSP features (if available) on your audio device.

INFO

Use **INFO** to display the current channel and program information.



In the **AUX**, **CBL/SAT**, **CD**, **DVD**, and **PVR** modes, use the **Cursor Keys** to move the cursor in the program guide and menu screens.

Use **OK** to choose options from your selected device's menu or guide.

In the **TV** or **VCR** mode, press **SCROLL** once to access the **Cursor** and **OK** Keys.

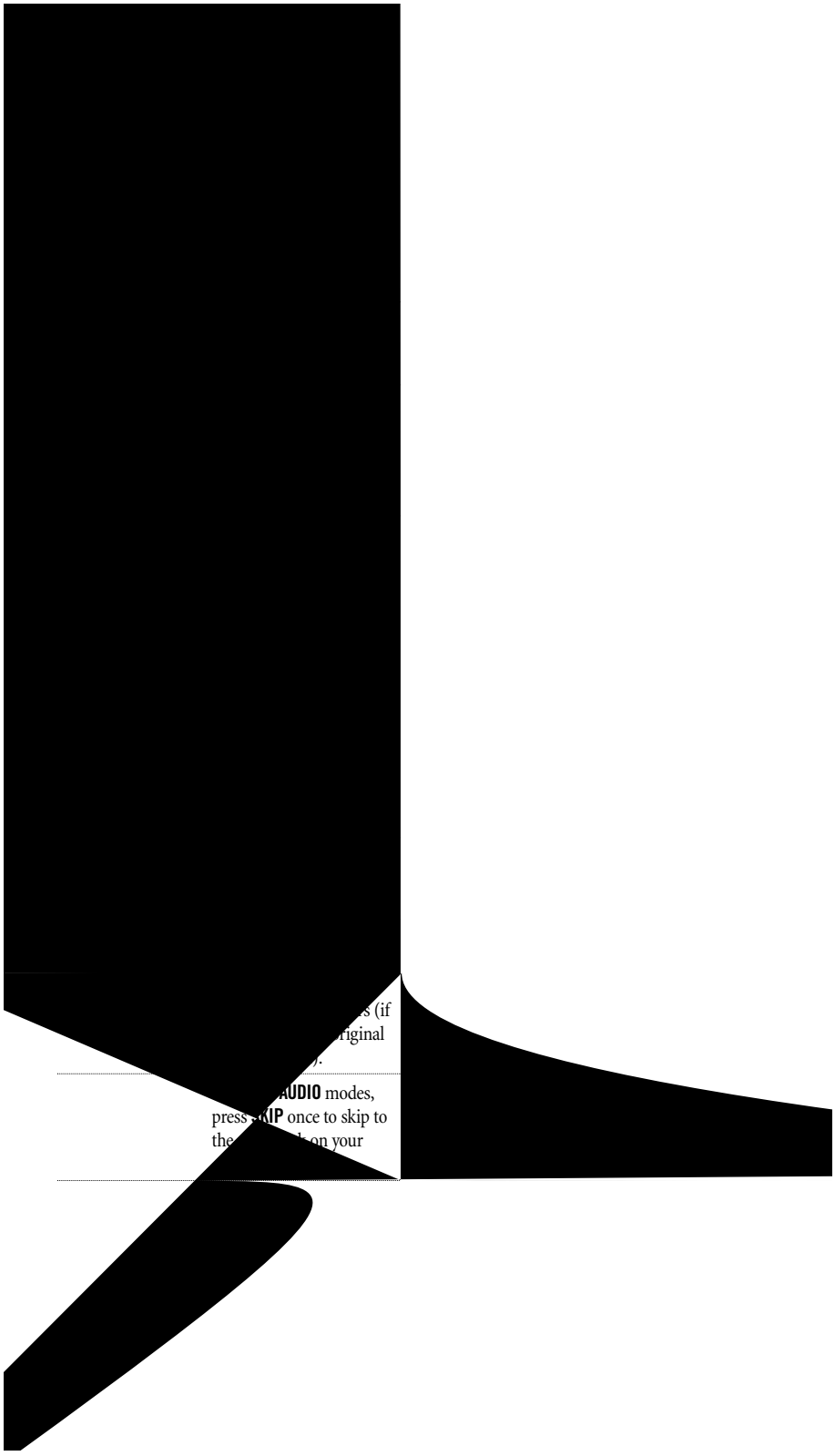
In the **AUDIO** mode, press **SCROLL** twice to access the **Cursor** and **OK** Keys.



In the **AUDIO** mode, use the **Cursor Keys** to move the cursor to select or test surround sound channels on your audio device. Also see **VOL** keys (above left).

Use **OK** to choose options from your audio device's menu or guide.

continued on next page...



OFA Kameleon UG 5/8/03 3:22 PM Page 7



In the program mode, use the **Program Keys** to personalize the remote control as follows:



Use **DEV SET** to program your device codes. See *Programming Device Control* on page 8.



Use **SEARCH** as an alternate way to set up a device by searching available codes. See *Searching For Your Code* on page 11.



Use **THEATER** to create a custom mode with favorite remote control keys from different devices in your home theater system. See *Using The Home Theater Mode* on page 12.



Use **VOL** (**Volume Lock**) to set volume controls for individual or global device use. See *Changing Volume Lock* on page 14.



Use **MACRO** to program a series of commands on five available macro keys. See *Using Macros* on page 16.



Use (**Brightness**) to adjust the brightness level of the EL display. See *Adjusting Brightness* on page 8.



Use **IR LRN** and **IR DEL** to add and delete key functions learned from your original device remote controls. See *Using Learning* on page 17.



Use **MODE** to reassign an unused device key to control a second device. See *Reassigning Device Keys* on page 20.



Use **OTHER** to program other functions. See the *Table of Contents* on page 2 for sections on *Checking The Codes*, *Programming Favorite Channel Scan*, *Using Keymover*, or *Upgrading*.

DEVICE TABLE

NOTE: Please refer to the table below when performing the instructions in "Programming Device Control" on page 8.

After programming, the OFA Kameleon 8-Device Remote will be able to control the following types of devices:

DEVICE KEY	CONTROLS THESE DEVICES
AUX	Video Accessory or second device (e.g., Cable Box, Satellite Receiver, DVD Player, etc.) by reassigning device keys (see *Reassigning Device Keys* on page 20)
CBL	Cable Box (Converter), Satellite Receiver, or Satellite/PVR Combo
CD	CD Player or Home Automation
	Television
DVD	DVD Player, TV/DVD Player Combo, or DVD/VCR Player Combo
	Audio Amplifier, Audio Receiver, or Home-Theater In-A-Box Device (listed under *Setup Codes For Audio Receivers* on page 24)
VCR	VCR or TV/VCR Combo
PVR	PVR (DVR)

KAMELEON 8-D REMOTE

ADJUSTING BRIGHTNESS

The OFA Kameleon 8-Device Remote has five levels of brightness adjustment and is set to the middle one at the factory. To increase or decrease the brightness, perform the following steps:

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear.

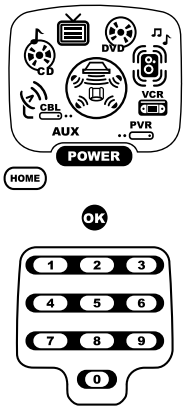
***NOTE**: If the display turns off because of inactivity, you will need to start the programming sequence again by repeating this step.*

2. Press (**Brightness**) once. The *Brightness* programming screen will appear:

- To increase brightness, press ▲ one or more times.
- To decrease brightness, press ▼ one or more times.

3. When the desired brtnsd fae, r(
uMrK:

OFA Kameleon UG 5/8/03 3:22 PM Page 9



4. Press a device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**). The selected device key will animate.

 ***NOTE**: Please refer to the Device Table on page 7 when choosing a device key for programming.*

5. Use the *Manufacturer's Codes* (starting on page 24) to locate the type of device and brand name and then use the **Number Keys** to enter the first four-digit code for your device. If performed correctly, the bottom two IR segments will flash twice.

 ***NOTE**: If the bottom two IR segments displayed one long flash instead, a mistake has occurred. Try entering the same code again.*

6. Aim the remote control at the device and press **POWER** once. The device should turn off. If it does not, repeat steps 5 and 6, trying each code for your brand until you find one that works. If it still doesn't work, try *Searching For Your Code* on page 11.

 ***NOTE**: If the device does not have a **POWER** key, press the ► (Play) key.*

7. If the code works, press **OK** once. The two bottom IR segments will display one long flash.

8. If desired, repeat steps 4 through 7 for each device you want to control. If finished, press **HOME** twice to exit programming and return to the last-selected device menu screen.

9. For future reference, write down each working device code in the following boxes:

AUX Code:

☐☐☐☐

Device Type:_____

CBL/SAT Code:

☐☐☐☐

Device Type:_____

CD Code:

☐☐☐☐

Device Type:_____

DVD Code:

☐☐☐☐

Device Type:_____

TV Code:

☐☐☐☐

DVD Code:

☐☐☐☐

Device Type:_____

AUDIO Code:

☐☐☐☐

Device Type:_____

VCR Code:

☐☐☐☐

Device Type:_____

PVR Code:

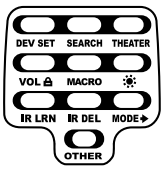
☐☐☐☐

PROGRAMMING DVD PLAYER/ VCR COMBO CONTROL

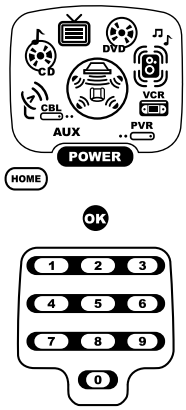
1. Turn on the DVD Player/VCR Combo and insert a DVD.

 ***NOTE**: Please read steps 2 through 10 completely before proceeding. Before starting step 2, review the "Setup Codes For DVD Player/VCR Combos" (on page 26). Brands are listed alphabetically in order of most popular ones first. Highlight or write down the devices and the codes you wish to program.*

2. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



3. Press **DEV SET** once. The *Device Setup* programming screen will appear:



4. Press **DVD** once. The key will animate.

5. Use the *Setup Codes For DVD Player/VCR Combos* (on page 26) to locate the brand name and then use the **Number Keys** to enter the first four-digit code for your device. If performed correctly, the two bottom IR segments will flash twice.

 ***NOTE**: If the two bottom IR segments displayed one long flash instead, an error has occurred. Try entering the same code again.*

6. Aim the remote control at the device and press **POWER** once. The device should turn off.

7. If the code works, press **OK** once. The two bottom IR segments will display one long flash.

8. (Optional) If you've located a setup code that works, but it also has a separate VCR code as listed on page 26, you'll also need to program it into the remote control to access VCR controls as follows:

 a. Press **VCR** once.

 b. Using the **Number Keys**, enter the four-digit VCR code for your DVD Player/VCR Combo. If performed correctly, the two bottom IR segments will flash twice.

 c. Press **OK** once. The two bottom IR segments will display one long flash.

 ***NOTE**: If a separate VCR setup code is not listed, you can use the **VCR** key to program a separate VCR device or another device (see "Reassigning Device Keys" on page 20).*

9. To exit programming, press **HOME** twice. The display will return to the last-selected device menu screen.

10. For future reference, write down the working DVD Player/VCR Combo code in the below boxes:

 DVD Player/VCR Code:

 ☐☐☐☐

 VCR Code (if used):

 ☐☐☐☐

OFA Kameleon UG 5/8/03 3:22 PM Page 11

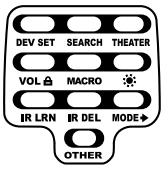
SEARCHING FOR YOUR CODE

If your device does not respond to the remote control after trying all codes listed for your brand, or if your brand is not listed at all, try searching for your code.

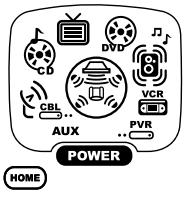
***NOTE**: Before performing a code search for a CD or DVD player or a VCR, turn on the device and insert the required media.*

For example, to search for a code for your TV:

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



2. Press **SEARCH** once. The *Search Codes* programming screen will appear:





3. Press a device key once (e.g., **TV**). The selected device key will animate. The device's *Main Menu* screen will appear with the **HOME** key still displayed.

4. Press **POWER** once to select it as the search test function. The *Search Programming* screen will appear again.

 ***NOTE**: With **POWER** as the search test function, a "Power On" IR command will be sent to the device each time a test code is sent. As a confirmation, the IR segments will display an outgoing animation.*

 ***NOTE**: If your device or its original remote control does not have a Power key, select a different test function in this step (e.g., **CH+**, **VOL+**, **Play**, etc).*

5. Aim the remote control at the device (e.g., **TV**) press ▲ one or more times and stop when a working code performs the test function selected in step 4. If desired, use ▼ to try a previous code.

 ***NOTE**: In the search mode, the remote control will send IR codes from its library to the selected device, starting with the most popular code first.*

6. To lock in the code, press **OK** once. The two bottom IR segments flash twice.

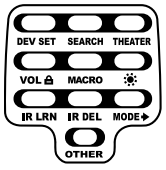
7. To search for codes of your other devices, repeat steps 3 to 6, but use the appropriate device key and test function key for the device you are searching for.

8. To exit programming, press **HOME** twice. The display will return to the last-selected device menu screen.

CHECKING THE CODES

If you have set up the remote control using the *Searching For Your Code* procedure (on the left), you may need to find out which four-digit code is operating your equipment. For example, to find out which code is operating your TV:

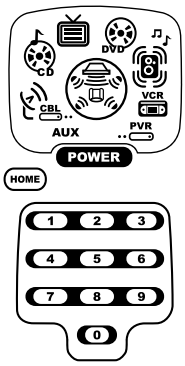
1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



continued on next page...

CHECKING THE CODES (cont'd)

2. Press **OTHER** once. The *Other* programming screen will appear:



3. Using the **Number Keys**, enter **9 9 0**. The bottom two IR segments will flash twice.
4. Press a desired device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**). The selected device key will animate.
5. To view the code for the first digit, press **1** once. Count the number of times the two bottom IR segments flash (e.g., three flashes = 3) and write down the number in leftmost box in the TV code boxes on page 9.

 ***NOTE**: If a code digit is "0", the two bottom IR segments will not flash.*
6. Repeat step 5 three more times for remaining digits. Use **2** for the second digit, **3** for the third digit, and **4** for the fourth digit. Write down the code digits in the remaining TV code boxes on page 9.

 ***NOTE**: If you enter an invalid number (e.g., **7**) or key (e.g., **Play**), the two bottom IR segments will display one long flash and return to the "Other" programming screen. Start again with step 2 above.*
7. To check for codes of other devices, repeat steps 4 to 6, but substitute the appropriate device key for each device you are checking. Write down the device's code digits in the appropriate code boxes on page 9.
8. To exit programming, press **HOME** twice. The display will return to the last-selected device menu screen.

USING THE HOME THEATER MODE

The OFA Kameleon 8-Device Remote includes a custom Home Theater mode. After the **Home Theater** key is programmed, it will allow you to access four groups of remote control keys without having to change device modes.

CONTROL ORGANIZATION

ABOUT CONTROL GROUPS

For Home Theater programming, the remote control's keys are grouped by type of control into the following four control groups:

Video Playback Group:	**Transport Controls (Rewind**, **Play**, **Fast Forward**, **Stop**, **Pause**, **Record**, **Skip Forward**, **Skip Back)**, and **LIVE TV**
Volume Controls Group:	**VOL+**, **VOL-**, and **MUTE**
Channel Controls Group:	**CH+**, **CH-**, **INPUT**, **Keypad (0 ~ 9)**, **FAV**, **ENTER**, and **LAST**
Menu Controls Group:	**Cursor Controls (Up**, **Down**, **Left**, and **Right)**, **OK**, **PAGE+**, **PAGE-**, **MENU**, **INFO**, **GUIDE**, and **EXIT**

ABOUT DEVICE MODES

Moreover, the above *Control Groups* can be used in the following modes:

Video Playback Group:	**AUDIO**, **AUX**, **CBL/SAT**, **CD**, **DVD**, **PVR**, and **VCR**
Volume Controls Group:	**AUDIO**, **AUX**, **CBL/SAT**, **CD**, **DVD**, **PVR**, **TV**, and **VCR**
Channel Controls Group:	**AUX**, **CBL/SAT**, **DVD**, **PVR**, **TV**, and **VCR**
Menu Controls Group:	**AUDIO**, **AUX**, **CBL/SAT**, **CD**, **DVD**, **PVR**, **TV**, and **VCR**

Factory Default Settings

At the factory, the *Control Groups* are assigned the following modes as default settings:

Video Playback Group: **DVD**

Volume Controls Group: **AUDIO**

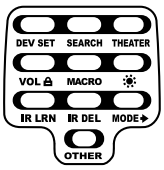
Channel Controls Group: **CBL/SAT**

Menu Controls Group: **CBL/SAT**

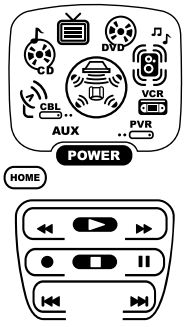
If the default settings fit your needs, you can skip programming this mode. Otherwise, perform the steps in the following section to assign device modes to the *Control Groups*.

Programming The Home Theater Mode

1. Press any device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**). The selected device key will animate.
2. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



3. Press **THEATER** once. The *Video Playback* programming screen will appear:

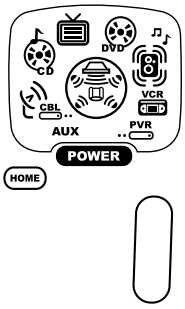


***NOTE**: If a device key is animated, it is assigned to this function group. To continue programming the Home Theater mode, you must select a device key, even if it is the same one that is currently animated.*

3. To assign a mode to the *Video Playback* group, press a device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**). Then the *Volume Controls* programming screen will appear:

***NOTE**: If a device key is animated, it is assigned to this function group. To continue programming the Home Theater mode, you must select a device key, even if it is the same one that is currently animated.*

4. To assign a mode to the *Volume Controls* group, press a device key once. Then the *Channel Controls* programming screen will appear:



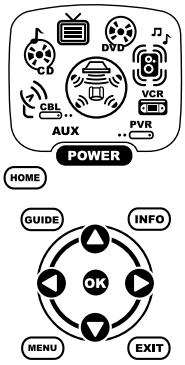
***NOTE**: If a device key is animated, it is assigned to this function group. To continue programming the Home Theater mode, you must select a device key, even if it is the same one that is currently animated.*

continued on next page...

USING THE HOME THEATER MODE

Programming The Home Theater Mode (continued)

5. To assign a mode to the *Channel Controls* group, press a device key once. Then the *Menu Controls* programming screen will appear:



***NOTE**: If a device key is animated, it is assigned to this function group. To continue programming the Home Theater mode, you must select a device key, even if it is the same one that is currently animated.*

6. To assign a mode to the *Menu Controls* group, press a device key once. Since *Home Theater* programming is now complete, the **Program Keys** will appear again.
7. To exit programming, press **HOME** once. The display will return to the last-selected device menu screen.

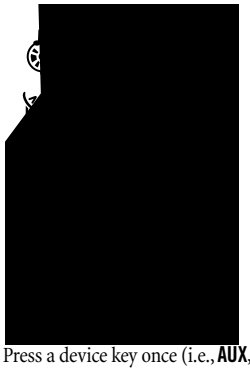
CHANGING VOLUME LOCK

The OFA Kameleon 8-Device Remote is set at the factory for independent volume control of each selected device.

However, you may change the Volume Lock setting to *Global Volume Lock* so that a device's volume will be locked to one mode (e.g., to control TV volume in all other modes). After that, if desired, you can perform *Individual Volume Unlock* on a selected device to set its volume control for independent operation.

Locking Volume Control To One Mode (Global Volume Lock)

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.
2. Press **VOL** once. The *Volume Lock* programming screen will appear:

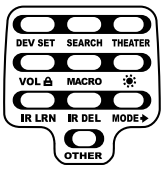


3. Press a device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**) where you want the volume controls locked to. The two bottom IR segments will flash twice and the **Program Keys** will appear again.
4. To exit programming, press **HOME** once. The display will return to the last-selected device menu screen.
5. Now, when you press **VOL ▲**, **VOL▼**, or **MUTE**, the selected device's volume will be controlled, regardless of the mode selected.

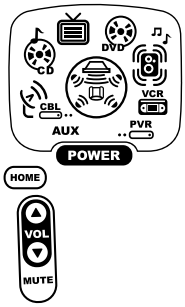
OFA Kameleon UG 5/8/03 3:22 PM Page 15

UNLOCKING VOLUME CONTROL FOR A SINGLE DEVICE (INDIVIDUAL VOLUME UNLOCK)

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



2. Press **VOL** once. The *Volume Lock* programming screen will appear:



3. Press **VOL▼** once. Then press a device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**) where you want the volume controls unlocked. The two bottom IR segments will flash twice and the **Program Keys** will appear again.

 ***NOTE**: The programming mode is still active as denoted by the flashing **SETUP** key. If desired, use the other **Program Keys** to continue programming (see Table of Contents on page 2 for related sections).*

4. If desired, repeat steps 1 through 3 (of this section) for each device that you want volume to be unlocked.

5. To exit programming, press **HOME** once. The display will return to the last-selected device menu screen.

6. Now, after you select a device that has volume unlocked, pressing **VOL ▲**, **VOL▼**, or **MUTE** will control the device's volume only in its own mode.

UNLOCKING ALL VOLUME CONTROL (RESTORING DEFAULT SETTING)

1. Perform steps 1 and 2 of the previous section.

2. Press **VOL ▲** once. The two bottom IR segments will flash twice and the **Program Keys** will appear again.

3. To exit programming, press **HOME** once. The display will return to the last-selected device menu screen.

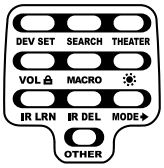
4. Volume will again be independently controlled according to its default states for all programmed devices.

USING MACROS

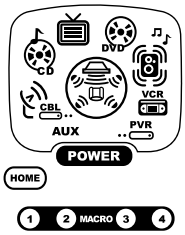
The OFA Kameleon 8-Device Remote includes five **Macro Keys**, **M1** through **M4** and **POWER**. Each one can be set up to perform a repetitive, time-consuming operation with the press of a single key.

***NOTE**: A macro programmed onto the **POWER** key cSIDYqSqYVqESFIeolHjRVj8,AHY8VER8, KHYOAKHjRVj8OAHY8VER8,a*

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



2. Press **MACRO** once. The *Macro* programming screen will appear:



3. Press **POWER** once.The last-selected device menu screen, including **HOME**, will be displayed.

4. Enter the macro sequence. For this example, press **CBL/SAT** once, followed by **POWER** once. Next, press **DVD** once, followed by **POWER** once. Then press **AUDIO** once, followed by **POWER** once. Finally, press **TV** once, followed by **POWER** once., and then the **Home Theater** key once.

5. To save the power macro, press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear again.

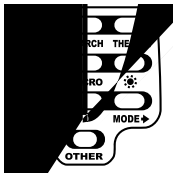
6. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

7. To test the power macro, first make sure all home theater devices selected in step 4 are turned on. Aim the remote control at the devices and press the **Home Theater** key once, followed by **POWER** once. The devices should turn off in this order: Satellite Receiver, DVD Player, Audio Receiver, and TV.

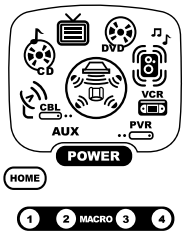
 To turn on the devices on again in the same order as above, press **POWER** once.

Clearing A Macro

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



2. Press **MACRO** once. The *Macro* programming screen will appear:



3. Select the **Macro Key** to be cleared and press it once. The last-selected device menu screen will be displayed.

4. Press and hold **SETUP until** the two bottom IR segments flash twice. The **Program Keys** will appear again.

5. To exit programming, press **HOME** once. The display will return to the last-selected device menu screen.

OFA Kameleon UG 5/8/03 3:23 PM Page 18

USING LEARNING

The OFA Kameleon 8-Device Remote includes a *Learning* feature so you can add functions that are unique to your home entertainment devices (e.g., VCR Tracking Up or Down). However, there are some considerations:

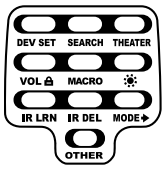
LEARNING PRECAUTIONS

- Your original remote controls must be in working order for learning to work properly.
- Learned keys are mode specific, so each one can store a unique function for each mode.
- Learned keys can be used in macros (see *Using Macros* on page 16).
- Do not use the following keys for learning: **Device Keys**, **M1~M4**, **SETUP**, **FAV**, **SCROLL**, **PRESET**, **PVR VOD**, or **Record (•) Key**.
- Learning capacity is approximately 16 to 25 keys, depending on the code being learned.
- If both learned and keymoved functions are assigned to the same key, the last programmed function will be stored.
- A learned function cannot be used as a source for Keymover (see *Using Keymover* on page 20).
- Certain device codes are not learnable including multi-frequency types, some high frequency ones, and other unusual formats.
- For optimum learning, avoid high levels of ambient light such as natural sunlight or energy-efficient fluorescent lights.

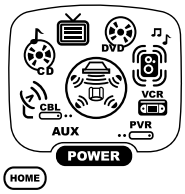
***NOTE**: Please have your original remote controls handy before programming learning. Be sure to press each teaching key within 5 seconds of the previous entry. Otherwise, the OFA Kameleon 8-Device Remote will exit the programming mode.*

PROGRAMMING A LEARNING KEY

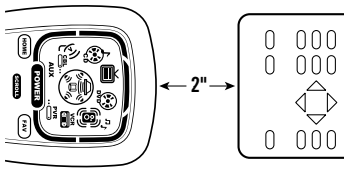
1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear (as shown above right) as **SETUP** flashes repeatedly.



2. Press **IR LRN** once. The *IR Learn* programming screen will appear:



3. Press a device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**) to assign a mode for learning. The selected device menu screen, including **HOME**, will be displayed.
4. Place the OFA Kameleon 8-Device Remote head-to-head (about 2" apart) from your original remote control. Also locate the key (on your original remote control) that will serve as the teaching function.



5. On the OFA Kameleon 8-Device Remote, select and press a desired key where the learned function will be stored. The IR segments will display an incoming animation, continue for three revolutions, and then the entire display will turn off.

 After the display is off, press and hold the teaching key (on your original remote control) until the display (on the OFA Kameleon 8-Device Remote) turns on again. The two bottom IR segments will flash twice when the code is successfully captured.

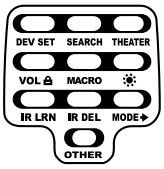
 ***NOTE**: If the two bottom IR segments display one long flash, a learning error has occurred. Try repeating this step again until a successful capture occurs. If the*

*function is still not captured, press **HOME** twice to exit programming and review the "Learning Precautions" on the previous page. If needed, also see "Troubleshooting" on page 31. After review, start programming again at step 1.*

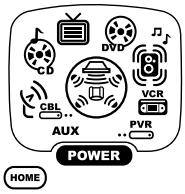
6. To learn other functions, repeat steps 3 through 5 as desired.
7. To exit programming, press **HOME** twice. The display will return to the last-selected device menu screen.

Deleting A Single Learned Key

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



2. Press **IR DEL** once. The *IR Delete* programming screen will appear:



3. Press a device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**) for the mode where the learned key to be deleted resides. The selected device menu screen, including **HOME**, will be displayed.
4. Press the learned key to be deleted twice. Upon deletion, the two bottom IR segments will flash twice as confirmation. The **Program Keys** will appear again.
5. If desired, repeat steps 2 through 5 to delete another learned key.
6. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

Deleting All Learned Keys In A Specific Mode

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.
2. Press **IR DEL** once. The *IR Delete* programming screen will appear:

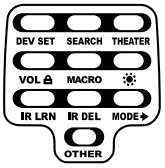


3. Press a device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**) for the mode where the learned keys to be deleted reside. The selected device menu screen, including **HOME**, will be displayed.
4. Press the same device key (as in step 3) once. Upon deletion, the two bottom IR segments will flash twice as confirmation. The **Program Keys** will appear again.
5. If desired, repeat steps 2 through 5 to delete other learned keys from another mode.
6. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

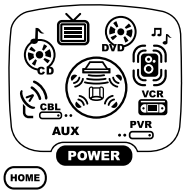
REASSIGNING DEVICE KEYS

The OFA Kameleon 8-Device Remote can be set to control a second device. For example, to control a TV, a cable box, and *two* DVD players, you can reassign the unused **AUX** key to operate the second DVD player as follows:

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



2. Press **MODE** ➔ once. The *Mode Mover* programming screen will appear:



3. For the source mode, press a device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**). For this example, press **DVD** once. The selected device menu screen, including **HOME**, will be displayed.

 ***NOTE**: Only one device can be assigned to an unused device key at a time.*

4. For the destination mode, press a device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**). For this example, press **AUX** once. Upon reassignment, the two bottom IR segments will flash twice as confirmation. The **Program Keys** will appear again.

5. For this example, the **AUX** key is now ready to be set up to control your second DVD player. See *Programming Device Control* on page 8. If desired, repeat steps 2 to 5 to reassign another device.

6. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

USING KEYMOVER

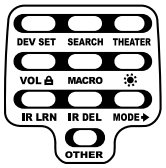
The OFA Kameleon 8-Device Remote includes a *Keymover* feature that allows you to map (or copy) keys from one mode (i.e., source mode) to another mode (i.e., destination mode).

***NOTE**: Do not use any of the Device Keys as a source or destination key.*

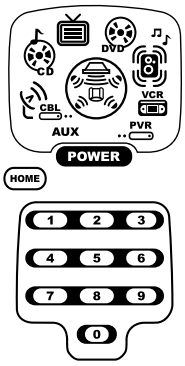
PROGRAMMING KEYMOVER

For example, if your DVD player does not have volume control, you can map those keys (i.e., **VOL▲**, **VOL▼**, and **MUTE**) from the TV mode to DVD mode as follows:

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



2. Press **OTHER** once. The *Other* programming screen will appear:



3. Using the **Number Keys**, enter **9 9 4**. The two bottom IR segments will flash twice.

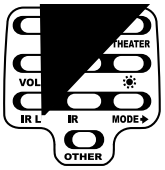
4. For the source mode, press a desired device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**). For this example, press **TV** once. The selected source device menu screen, including **HOME**, will be displayed.

5. For the source key, press a key to be moved once. For this example press **VOL▲** once.
6. For the destination mode, press a desired device key once (i.e., **AUX**, **CBL/SAT**, **CD**, **TV**, **DVD**, **AUDIO**, **VCR**, or **PVR**). For this example, press **DVD** once. The selected destination device menu screen, including **HOME**, will be displayed.
7. For the destination key, press a key to be moved once. For this example press **VOL▲** once. Upon keymoving, the two bottom IR segments will flash twice as confirmation. The **Program Keys** will appear again.
8. Repeat steps 3 through 7 two more times to map the remaining volume control keys, substituting **VOL▼** and **MUTE** as source and destination keys in steps 5 and 7.
9. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

Upon completion of the above procedure, you can now use your OFA Kameleon 8-Device Remote to control the TV's volume and mute in the DVD mode, as well as in the TV mode.

Restoring A Single Keymoved Key

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



2. Press **OTHER** once. The *Other* programming screen will appear (as shown above right):

OFA Kameleon UG 5/8/03 3:23 PM Page 22

USING CHANNEL SCAN

In the **AUX**, **CBL/SAT**, or **TV** mode, use the **FAV** key to start a 3-second scan of all channels. If programmed, use the **FAV** key to scan only your favorite channels to view a desired channel (see *Programming Favorite Channel Scan* below).

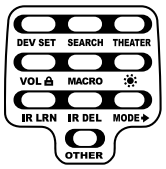
1. If *Favorite Channel Scan* has been set up, skip to step 2. Otherwise, press **AUX**, **CBL/SAT**, or **TV** once. The two bottom IR segments flash once.
2. Press **FAV** once. The IR segments will display outgoing animation as each channel is changed.
 - If *Favorite Channel Scan* has been set up, scanning of favorite channels will start and cycle through stored channels for 3 minutes or until stopped by pressing any key.
 - If *Favorite Channel Scan* has not been set up, scanning will start with the current channel, then proceed to the next channel up and cycle through all channels for 3 minutes or until stopped by pressing any key.
3. To stop scanning channels at any time, press any key once.

PROGRAMMING FAVORITE CHANNEL SCAN

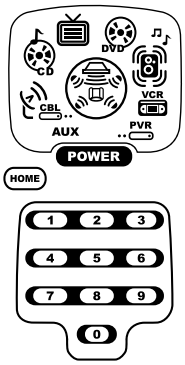
In the **AUX**, **CBL/SAT**, or **TV** mode, you can store a list of up to 10 favorite channels, in any order, that will be immediately scanned when **FAV** is pressed (see *Using Channel Scan* above).

***NOTE**: Favorite channels can only be programmed for one mode. After programming, if **FAV** is pressed while in another mode, the remote control will start a normal channel scan instead (if applicable to the selected device).*

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear (as shown above right) and **SETUP** flashes repeatedly.



2. Select a *Favorite Channel Mode* by pressing **AUX**, **CBL/SAT**, or **TV** once. The two bottom IR segments flash once as the selected device key animates.
3. Press **OTHER** once. The *Other* programming screen will appear:



4. Using the **Number Keys**, enter **9 9 6**. The two bottom IR segments will flash twice and display the *Favorite Channel* programming screen.

 ***NOTE**: If the the two bottom IR segments display one long flash, an error has occurred. Try repeating this step.*

5. Using the **Number Keys**, enter a favorite channel number (e.g., **0 1 2**). Then press **SETUP** once. The two bottom IR segments will flash three times confirming your entry.

 ***NOTE**: If the original remote control required pressing an Enter key to change the channel, also press the **ENTER** key after the channel number (e.g., **0 1 2 ENTER**).*

6. If desired, repeat step 5 for each channel to be stored, up to a total of 10 channels.

 ***NOTE**: After storing 10 channels, the remote control will exit the Favorite Channel programming screen and again display the **Program Keys**.*

OFA Kameleon UG 5/8/03 3:23 PM Page 23

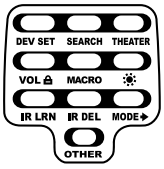
7. To exit programming with less than 10 favorite channels stored, press **HOME** twice. The display will return to the last-selected device menu screen.

RESTORING FACTORY DEFAULT SETTINGS

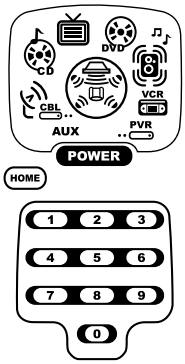
The OFA Kameleon 8-Device Remote includes an *Setup Code Reset* program. You can use it to restore all your programmed codes to factory settings and delete all custom programming.

IMPORTANT: Executing this program will erase all code settings and all custom settings for Home Theater, Macros, Learned Keys, Reassigned Device Keys, Keymoved Keys, Favorite Channels, and all device settings.

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



2. Press **OTHER** once. The *Other* programming screen will appear:



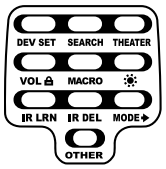
3. Using the **Number Keys**, enter **9 7 7**. The two bottom IR segments will flash twice pause and flash twice again to confirm the unit has been restored to factory default settings.
4. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

CLEARING ALL CUSTOM PROGRAMMING

The OFA Kameleon 8-Device Remote contains a *Custom Programming Reset* program. You can use it to remove all custom programming, except your setup codes and reassigned device keys.

IMPORTANT: Executing this program will erase all custom settings for Home Theater, Macros, Learned Keys, Keymoved Keys, and Favorite Channels.

1. Press and hold **SETUP** until the two bottom IR segments flash twice. The **Program Keys** will appear as **SETUP** flashes repeatedly.



2. Press **OTHER** once. The *Other* programming screen will appear.
3. Using the **Number Keys**, enter **9 8 0**. The two bottom IR segments will flash twice pause and flash twice again to confirm the unit has been restored to factory default settings.
4. Exit programming by pressing **HOME** once. The display will return to the last-selected device menu screen.

OFA Kameleon UG 5/8/03 3:23 PM Page 24

MANUFACTURER'S CODES

SETUP CODES FOR AUDIO AMPLIFIERS

GE	0078
Harman/Kardon	0892
JVC	0331
Left Coast	0892
Marantz	0892
Optimus	0395
Philips	0892
Polk Audio	0892
Realistic	0395
Soundesign	0078
Victor	0331
Wards	0078
Yamaha	0354

SETUP CODES FOR AUDIO RECEIVERS

ADC	0531
Aiwa	1089, 1405, 0121, 0158, 0189, 1388
Alco	1390
Anam	1609
Apex Digital	1257
Audiotronic	1189
Audiovox	1390
Bose	1229
Capetronic	0531
Carver	1089, 1189, 0189
Classic	1352
Denon	1360
Harman/Kardon	0110, 0189
Integra	0135, 1298
JBL	0110, 1306
JVC	0074, 1374
KLH	1390
Kenwood	1313, 1027, 1570, 1569, 0186
Koss	1366
Lasonic	1798
Linn	0189
MCS	0039
Magnavox	1089, 1189, 1269, 0189, 0531
Marantz	1089, 1189, 0039, 0189
Musicmagic	1089
Norcent	1389
Onkyo	0135, 0842, 1298
Optimus	1023, 0186, 0531, 0670
Oritron	1366, 1380
Panasonic	1518, 0039
Philips	1089, 1189, 1269, 0189
Pioneer	1023, 0014, 0150, 0531, 0630, 1384
Polk Audio	0189
Proscan	1254
Quasar	0039
RCA	1023, 1254, 0531, 1390, 1609
Samsung	1295
Sansui	1089, 0189
Sharp	0186
Sharper Image	1385
Sherwood	1653
Sony	1058, 1258, 1158, 0158, 1558, 1658, 1758
Soundesign	0670
Stereophonics	1023
Sunfire	1313
Technics	1308, 1309, 1518, 0039
Thorens	1189
Venturer	1390
Victor	0074
Wards	0014, 0158, 0189
Yamaha	0176, 0186, 1176, 1375

SETUP CODES FOR CABLE BOXES

ABC	0003, 0008, 0014
Americast	0899
Bell & Howell	0014
Bell South	0899
Director	0476
General Instrument	0476, 0003, 0276, 0810
GoldStar	0144
Hamlin	0009, 0273
Jerrold	0476, 0003, 0276, 0014, 0810
Memorex	0000
Motorola	0476, 0276, 0810
Pace	0237
Panasonic	0000, 0107
Paragon	0000
Philips	0305, 0317
Pioneer	0877, 0144, 0533, 1877
Pulsar	0000
Quasar	0000
Regal	0273, 0279
Runco	0000
Samsung	0144
Scientific Atlanta	0877, 0008, 0477, 1877
Sony	1006
Starcom	0003
Supercable	0276
Torx	0003
Toshiba	0000
Zenith	0000, 0525, 0899

OFA Kameleon UG 5/8/03 3:23 PM Page 25

SETUP CODES FOR CD PLAYERS

Aiwa	0157
Burmester	0420
California Audio Labs	0029
Carver	0157
Classic	1297
DKK	0000
DMX Electronics	0157
Denon	0873
Garrard	0420
Genexxa	0032
Harman/Kardon	0157
Hitachi	0032
JVC	0072
KLH	1318
Kenwood	0681, 0626, 0028
Krell	0157
Linn	0157
MCS	0029
MTC	0420
Magnavox	0157
Marantz	0626, 0029, 0157
Miro	0000
Mission	0157
NSM	0157
Onkyo	0868
Optimus	1063, 0000, 0032, 0420
Panasonic	0029
Parasound	0420
Philips	0626, 0157
Pioneer	1063, 1062, 0032
Polk Audio	0157
Proton	0157
QED	0157
Quasar	0029
RCA	1062, 0032
Realistic	0420
Rotel	0157, 0420
SAE	0157
Sansui	0157
Sharp	0861
Sonic Frontiers	0157
Sony	0490, 0000, 0100
TAG McLaren	0157
TDK	1208
Tascam	0420
Teac	0420
Technics	0029
Victor	0072
Wards	0157
Yamaha	0888, 0036, 1292

SETUP CODES FOR DVD PLAYERS

Aiwa	0641
Apex Digital	0672, 0717, 0755, 0794, 0795, 0796, 0797, 0830
Blaupunkt	0717
Blue Parade	0571
Broksonic	0695
Cinevision	0876
DVD2000	0521
Daewoo	0784
Denon	0490, 0634
Emerson	0591
Enterprise	0591
Fisher	0670
GE	0522, 0717, 0815
Go Video	0715, 0783
Greenhill	0717
Harman/Kardon	0582, 0702
Hitachi	0573, 0664
Hiteker	0672
IRT	0783
Integra	0627
JBL	0702
JVC	0558, 0623, 0867
KLH	0717
Kenwood	0490, 0534, 0682
Magnavox	0503, 0675
Marantz	0539
Microsoft	0522
Mintek	0717
Mitsubishi	0521
Nesa	0717
Norcent	0872
Onkyo	0503, 0627
Panasonic	0490, 0632, 1362, 1462, 1490
Philips	0503, 0539, 0646, 0854
Pioneer	0525, 0571, 0632
Polk Audio	0539
Proscan	0522
RCA	0522, 0571, 0717, 0822
Rotel	0623
Sampo	0698
Samsung	0573, 0820
Sansui	0695
Sanyo	0670, 0695
Sharp	0630
Sherwood	0633
Shinsonic	0533
Sony	0533, 0864
Sylvania	0675, 0821

continued on next page...

OFA Kameleon UG 5/8/03 3:23 PM Page 26

MANUFACTURER'S CODES

SETUP CODES FOR DVD PLAYERS (CONTINUED)

Technics	0490
Theta Digital	0571
Toshiba	0503, 0695, 1045
Tredex	0799
Urban Concepts	0503
XBox	0522
Yamaha	0490, 0539, 0545, 0817
Zenith	0503, 0591

SETUP CODES FOR DVD PLAYER/VCR COMBOS

Go Video	0715
Hitachi	0664 (for VCR use 0000)
RCA	0822 (for VCR use 0060)
Samsung	0820
Sansui	0695
Sharp	0630 (for VCR use 0848)
Sony	0864
Sylvania	0675 (for VCR use 0000)
Toshiba	0503

SETUP CODES FOR HOME AUTOMATION

GE	0240
One For All	0167
RadioShack	0240
Security System	0167
Universal X10	0167
X10	0167

SETUP CODES FOR PVRS

Panasonic	0616
Philips	0618
ReplayTV	0614, 0616
Sonic Blue	0614, 0616
Sony	0636
Tivo	0618, 0636

SETUP CODES FOR SATELLITE RECEIVERS

AlphaStar	0772
Chaparral	0216
Crossdigital	1109
DirecTV	0392, 0566, 0639, 1142, 0247, 0749, 0819, 1109, 1749, 1856
Dish Network System	1005, 0775
DishPro	1005, 0775
Echostar	1005, 0775
Expressvu	0775
GE	0566
GOI	0775
General Instrument	0869
HTS	0775
Hitachi	0819
Hughes Network Systems	1142, 0749, 1749
JVC	0775
Magnavox	0724, 0722
Memorex	0724
Mitsubishi	0749
Motorola	0869
Next Level	0869
Panasonic	0247, 0701
Paysat	0724
Philips	1142, 0749, 0724, 1076, 0722, 1749
Proscan	0392, 0566
RCA	0392, 0566, 0855, 0143
RadioShack	0869
SKY	0856
Samsung	1109, 1276
Sony	0639
Star Choice	0869
Toshiba	0749, 0790, 1749
UltimateTV	0392, 0639
Uniden	0724, 0722
Zenith	0856, 1856

SETUP CODES FOR SATELLITE RECEIVER/ PVR COMBS

Echostar	1005, 0775
Expressvu	0775
Hughes Network Systems	1142
Philips	1142
Proscan	0392
RCA	0392
Sony	0639

SETUP CODES FOR TVS

AOC	0030
Admiral	0093, 0463
Advent	0761
Aiko	0092
Aiwa	0701
Akai	0030, 0702
Alaron	0179
America Action	0180

OFA Kameleon UG 5/8/03 3:23 PM Page 27

Ampro	0751
Anam	0180
Apex Digital	0748, 0765
Audiovox	0451, 0180, 0092, 0623
Baysonic	0180
Bell & Howell	0154, 0016
Bradford	0180
Broksonic	0236, 0463
CXC	0180
Candle	0030, 0056
Carnivale	0030
Carver	0054
Celebrity	0000
Celera	0765
Changhong	0765
Cineral	0451, 0092
Citizen	0060, 0030, 0056, 0092
Clarion	0180
Concerto	0056
Contec	0180
Craig	0180
Crosley	0054
Crown	0180
Curtis Mathes	0047, 0054, 0154, 0451, 0093, 0060, 0030, 0145, 0056, 0016, 0166, 0466, 0702, 0747, 1147, 1347
Daewoo	0451, 0092, 0623
Denon	0145
Dumont	0017
Dwin	0720, 0774
Electroband	0000
Emerson	0154, 0236, 0463, 0180, 0178, 0179, 0623
Envision	0030
Fisher	0154
Fujitsu	0179, 0683
Funai	0180, 0179, 0171
Futuretech	0180
GE	0047, 0051, 0451, 0178, 0021, 0747, 1147, 1347
Gibralter	0017, 0030
GoldStar	0030, 0178
Gradiente	0053, 0056
Grunpy	0180, 0179
Hallmark	0178
Harley Davidson	0179
Harman/Kardon	0054
Harvard	0180
Havermy	0093
Hitachi	0145, 0056, 0016, 1145
Infinity	0054
Inteq	0017
JBL	0054
JCB	0000
JVC	0463, 0053
KEC	0180
KTV	0180, 0030
Kenwood	0030
Konka	0707
LG	0056
LXI	0047, 0054, 0154, 0156, 0178, 0747
Logik	0016
Luxman	0056
MGA	0150, 0030, 0178
MTC	0060, 0030, 0056
Magnavox	0054, 0030, 0179, 1254, 1454
Majestic	0016
Marantz	0054, 0030
Matsushita	0250
Megatron	0178, 0145
Memorex	0154, 0250, 0463, 0150, 0178, 0179, 0016
Midland	0047, 0017, 0051, 0747
Minutz	0021
Mitsubishi	0093, 0150, 0178
Motorola	0093
Multitech	0180
NAD	0156, 0178, 0166
NEC	0030, 0056
NTC	0092
Nikko	0030, 0178, 0092
Norcent	0748
Onwa	0180
Optimus	0154, 0250, 0166
Optonica	0093
Orion	0236, 0463, 0179
Panasonic	0250, 0051
Penney	0047, 0156, 0051, 0060, 0030, 0178, 0021, 0747, 1347
Philco	0054, 0463, 0030, 0145
Philips	0054, 0690, 1454
Pilot	0030
Pioneer	0166, 0679
Portland	0092
Princeton	0717
Prism	0051
Proscan	0047, 0747
Proton	0178, 0466
Pulsar	0017
Quasar	0250, 0051
RCA	0047, 0090, 0679, 0747, 1047, 1147, 1247, 1347, 1447
RadioShack	0047, 0154, 0180, 0030, 0178, 0056, 0747
Realistic	0154, 0180, 0030, 0178, 0056

continued on next page...

OFA Kameleon UG 5/8/03 3:23 PM Page 28

MANUFACTURER'S CODES

SETUP CODES FOR TVS (CONTINUED)

Runco	0017, 0030, 0603
SSS	0180
Sampo	0030
Samsung	0060, 0030, 0178, 0056, 0702
Sansei	0451
Sansui	0463
Sanyo	0154, 0799
Scotch	0178
Scott	0236, 0180, 0178, 0179
Sears	0047, 0054, 0154, 0156, 0178, 0179, 0056, 0171, 0747
Semivox	0180
Semp	0156
Sharp	0093, 0688, 0689
Signature	0016
Sony	0000, 1100
Soundesign	0180, 0178, 0179
Squareview	0171
Starlite	0180
Supreme	0000
Sylvania	0054, 0030, 0171
Symphonic	0180, 0171
TMK	0178, 0056
TNCi	0017
TVS	0463
Tandy	0093
Technics	0250, 0051
Technol Ace	0179
Techwood	0051, 0056
Teknika	0054, 0180, 0150, 0060, 0179, 0056, 0016, 0092
Telefunken	0056, 0702
Toshiba	0154, 0156, 0060, 1256, 1356
Vector Research	0030
Victor	0053
Vidikron	0054
Vidtech	0178
Wards	0054, 0030, 0178, 0021, 0179, 0056, 0016
Waycon	0156
White Westinghouse	0463, 0623
Yamaha	0030
Zenith	0017, 0463, 0178, 0016, 0092

SETUP CODES FOR TV/DVD PLAYER COMBOS

Apex Digital	0830
Broksonic	0695, 0868
Panasonic	1490
Philips	0854
Sharp	0630
Sylvania	0821
Toshiba	0695

SETUP CODES FOR TV/VCR COMBOS

Broksonic	1479
Citizen	1278
Curtis Mathes	1035
Daewoo	1278
Emerson	1278, 1479
Funai	0000
GE	0240, 0807, 1035, 1060
GoldStar	1237
Harley Davidson	0000
Hitachi	0000
Lloyd's	0000
MGA	0240
Magnasonic	1278
Magnavox	0000, 1781
Magnin	0240
Memorex	0037, 1162, 1237
Mitsubishi	0807
Optimus	1162
Orion	1479
Panasonic	1162, 1035
Penney	0240, 1035, 1237
Quasar	1162, 1035
RCA	1060, 0240, 0807, 1035
Sansui	0000, 1479
Sanyo	0240
Sears	0000, 1237
Sharp	0807
Sony	0000, 1232
Sylvania	1781
Symphonic	0000
Thomas	0000
Toshiba	0845
White Westinghouse	1278
Zenith	0000, 1479

SETUP CODES FOR VCRS

Admiral	0048, 0209
Adventura	0000
Aiko	0278
Aiwa	0037, 0000
America Action	0278
American High	0035
Asha	0240

OFA Kameleon UG 5/8/03 3:23 PM Page 29

Audiovox	0037, 0278
Beaumark	0240
Bell & Howell	0104
Broksonic	0184, 0121, 0209, 0002, 0479, 1479
CCE	0278
Calix	0037
Canon	0035
Carver	0081
Cineral	0278
Citizen	0037, 0278, 1278
Craig	0037, 0047, 0240
Curtis Mathes	0060, 0035, 0162, 0760, 1035
Cybernex	0240
Daewoo	0045, 0278, 1278
Denon	0042
Dynatech	0000
Electrohome	0037
Electrophonic	0037
Emerex	0032
Emerson	0037, 0184, 0000, 0121, 0043, 0209, 0002, 0278, 0479, 1278, 1479
Fisher	0047, 0104
Fuji	0035, 0033
Funai	0000
GE	0060, 0035, 0240, 0760, 1035, 1060
Garrard	0000
Go Video	0432
GoldStar	0037, 1237
Gradiente	0000
HI-Q	0047
Harley Davidson	0000
Harman/Kardon	0081
Hitachi	0000, 0042
Hughes Network Systems	0042
JVC	0067
KEC	0037, 0278
Kenwood	0067
Kodak	0035, 0037
LXI	0037
Lloyd's	0000
MEI	0035
MGA	0240, 0043
MGN Technology	0240
MTC	0240, 0000
Magnasonic	1278
Magnavox	0035, 0039, 0081, 0000, 1781
Magnin	0240
Marantz	0035, 0081
Marta	0037
Matsushita	0035, 0162
Memorex	0035, 0162, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 0479, 1162, 1237
Minolta	0042
Mitsubishi	0067, 0043
Motorola	0035, 0048
Multitech	0000
NEC	0104, 0067
Nikko	0037
Noblex	0240
Olympus	0035
Optimus	0162, 0037, 0048, 0104, 0432, 1162
Orion	0184, 0209, 0002, 0479, 1479
Panasonic	0035, 0162, 0225, 0616, 1035, 1162
Penney	0035, 0037, 0240, 0042, 1035, 1237
Pentax	0042
Philco	0035, 0209, 0479
Philips	0035, 0081, 0618, 1081, 1181
Pilot	0037
Pioneer	0067
Polk Audio	0081
Profitronic	0240
Proscan	0060, 0760, 1060
Pulsar	0039
Quasar	0035, 0162, 1035, 1162
RCA	0060, 0240, 0042, 0760, 0880, 1035, 1060
RadioShack	0000
Radix	0037
Randex	0037
Realistic	0035, 0037, 0048, 0047, 0000, 0104
ReplayTV	0614, 0616
Runco	0039
STS	0042
Samsung	0240, 0045
Sanky	0048, 0039
Sansui	0000, 0067, 0209, 0479, 1479
Sanyo	0047, 0240, 0104
Scott	0184, 0045, 0121, 0043
Sears	0035, 0037, 0047, 0000, 0042, 0104, 1237
Semp	0045
Sharp	0048, 0848
Shogun	0240
Sonic Blue	0614, 0616
Sony	0035, 0032, 0000, 0033, 0636, 1232
Sylvania	0035, 0081, 0000, 0043, 1781
Symphonic	0000
TMK	0240
Teac	0000
Technics	0035, 0162
Teknika	0035, 0037, 0000
Thomas	0000
Tivo	0618, 0636

continued on next page...

MANUFACTURER'S CODES

SETUP CODES FOR VCRS (CONTINUED)

Toshiba	0045, 0043, 0845
Totevision	0037, 0240
Unitech	0240
Vector	0045
Video Concepts	0045
Videomagic	0037
Videosonic	0240
Villain	0000
Wards	0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042, 0760
White Westinghouse	0209, 1278
XR-1000	0035, 0000
Zenith	0039, 0000, 0209, 0033, 0479, 1479

SETUP CODES FOR VIDEO ACCESSORIES

Panasonic	1120
Pioneer	1010
Princeton	0113, 0295
Samsung	1190
Sensory Science	1126
Sharp	1010

ABOUT UPGRADING

Your OFA Kameleon 8-Device Remote has the largest infrared code library available and contains a unique feature that allows new codes to be added to its memory over the phone. In a matter of seconds, your OFA Kameleon 8-Device Remote will quickly and reliably record the new information without complex plugs, adapters, or attachments.

This means that as you buy new products in the future, the OFA Kameleon 8-Device Remote will never become obsolete. Simply call our consumer help-line, and one of our customer service representatives will assist you through the entire process of upgrading your OFA Kameleon 8-Device Remote.

Consumer Help-Line: (330) 405-8620

***NOTE**: Universal Electronics reserves the right to replace a returned remote-control with a new one of equal or superior functionality.*

UPGRADE PROCEDURE

1. Call our Consumer Help-Line at: (330) 405-8620 on any business day, between 9 AM and 5:30 PM, EST.
2. Our customer service agent will ask for and record the brand name(s) and model number(s) of your device(s). Then the agent will lead you through the upgrade procedure by asking you to place your telephone's speaker next to the **CH** keys on the OFA Kameleon 8-Device Remote (as shown below).

 ***NOTE**: Only use a land-line phone for the upgrade procedure. Do not use a mobile phone because it will not transmit the signals correctly.*

 In a matter of seconds, new setup codes for your device(s) will be transmitted through the telephone and stored in your OFA Kameleon 8-Device Remote.
3. After your OFA Kameleon 8-Device Remote has been successfully upgraded by telephone, stay on the line. Our customer service agent will ensure that your unit is working properly with your device(s) and answer any other questions you may have.

UPGRADE EXCLUSIONS

- Home entertainment or home automation devices controlled by radio frequency (RF/UHF), wired, or ultrasonic remote controls. Only devices controlled by infrared remote controls are covered.
- Home entertainment or home automation devices not controlled by remote controls.
- Broken or defective product.
- Products that operate over 100 kHz.
- Infrared keyboards a nd infrared pointing devices (such as mouse substitutes).
- All products for sale and/or use outside the continental United States, Hawaii, Alaska, or Canada.

OFA Kameleon UG 5/8/03 3:23 PM Page 31

TROUBLESHOOTING

PROBLEM: No display at all times.

SOLUTION: Replace batteries with four new AAA alkaline batteries.

PROBLEM: No display when programming.

SOLUTION: Display has turned off due to inactivity. Start programming again and do not pause while performing instructions.

PROBLEM: During programming, the two bottom IR segments display a long flash.

SOLUTION: An invalid entry has occurred. Check the keys to be pressed and start program again.

PROBLEM: How do I stop programming?

SOLUTION: Press **HOME** once to return to the *Program Keys* screen. Press **HOME** once more to exit completely.

PROBLEM: The unit does not control home entertainment devices or commands are not working properly.

SOLUTION: Try all listed codes for the device brands being set up. Make sure they can be operated with an infrared remote control.

PROBLEM: Tried *Searching For Your Code* method and still could not find a working code.

SOLUTION: Perform *Restoring Factory Default Settings* on page 23. Then repeat *Searching For Your Code* on page 11.

PROBLEM: Cannot program a macro onto **M1** ~ **M4** or **POWER** keys.

SOLUTION : Make sure the total number of key presses being programmed is less than 15.

PROBLEM : Power macro does not execute.

SOLUTION : First, press the **Home Theater** key once, then press **POWER** once.

PROBLEM: Favorite channel function does not work properly.

SOLUTION: Some devices (e.g., Cable Boxes or Satellite Receivers) use two-digit channel numbers. During programming, press **ENTER** or **OK** once after entering a channel number (e.g., **0 2 ENTER** for channel 2). See *Programming Favorite Channel Scan* on page 22.

PROBLEM: Changing channels does not work properly.

SOLUTION: If the original remote control required pressing ENTER to change channels, then press **ENTER** on the remote control after entering channel numbers.

PROBLEM: No remote control of volume.

SOLUTION: See *Changing Volume Lock* on page 14 to lock/unlock volume.

PROBLEM: Two bottom IR segments flash when a key is pressed, but home entertainment device does not respond.

SOLUTION: Make sure the remote control is aimed at your home entertainment device and is not farther than 15 feet away.

PROBLEM: **CH▲** and **CH▼** do not work for your RCA TV.

SOLUTION: Due to RCA design (1983-1987), only the original remote control will operate these functions.

PROBLEM: Pressing **SCROLL** one or times in **CD**, **DVD**, **PVR** or **Home Theater** mode, does not display a secondary menu screen.

SOLUTION: Even though **SCROLL** is displayed, for these modes, there are no additional menu screens.

DEVICE MENU SCREENS

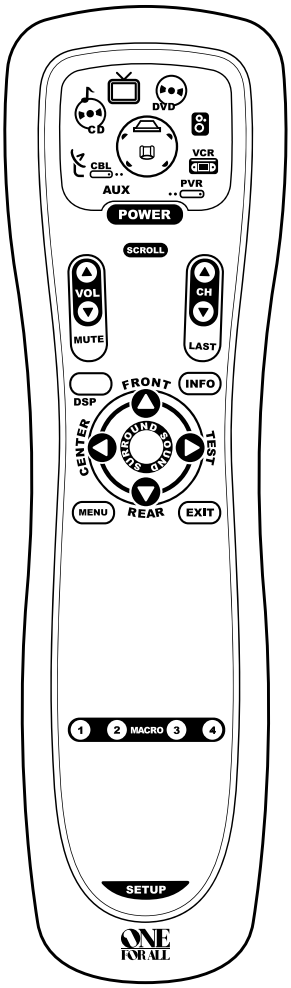
Programming Main Menu

AUDIO Main Menu

Pressing and holding **SETUP** displays the *Programming Main Menu* screen. Use the **Program Keys** to program device control (**DEV SET**), code search (**SEARCH**), home theater mode (**THEATER**), volume lock (**VOL** ⏏), macros (**MACRO**), display brightness (☼), function learning (**IR LRN** and **IR DEL**), device key reassignment (**MODE** ➧), or other functions (**OTHER**). See the *Table of Contents* on page 2 to locate a section of interest.

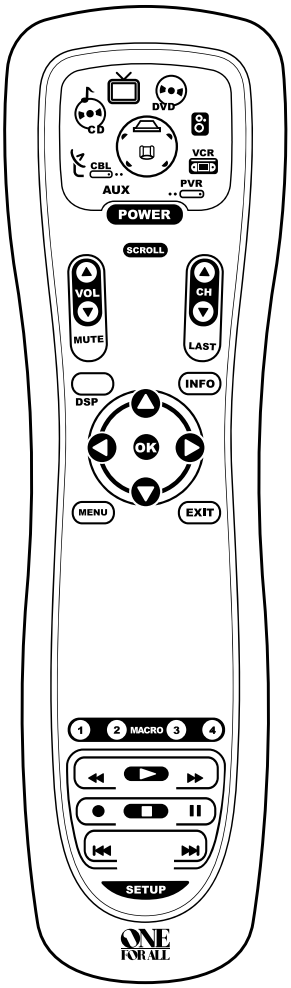
OFA Kameleon UG 5/8/03 3:23 PM Page 33

AUDIO SURROUND MENU



Pressing **SCROLL** once (on the *AUDIO Main Menu*, as shown on the previous page, right side) displays the *AUDIO Surround Menu* screen. Use these keys to remotely control your Audio Receiver's or Amplifier's volume, stations, and surround functions.

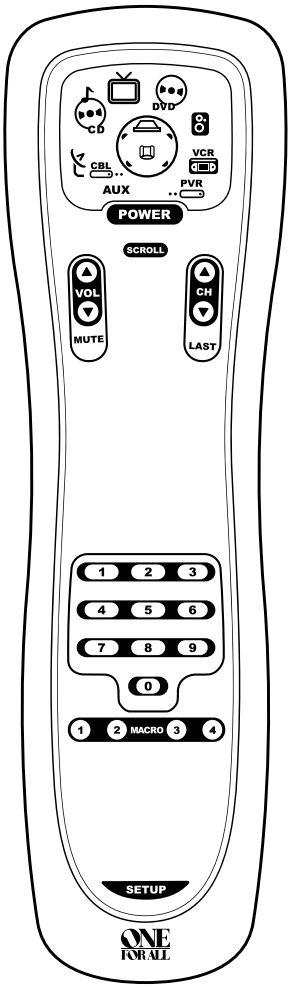
AUDIO MENU



Pressing **SCROLL** once (on the *AUDIO Surround Menu*, as shown on the left) displays the *AUDIO Menu* screen. Use these keys to remotely control your Audio Receiver's or Amplifier's volume, stations, and surround functions.

DEVICE MENU SCREENS (cont'd)

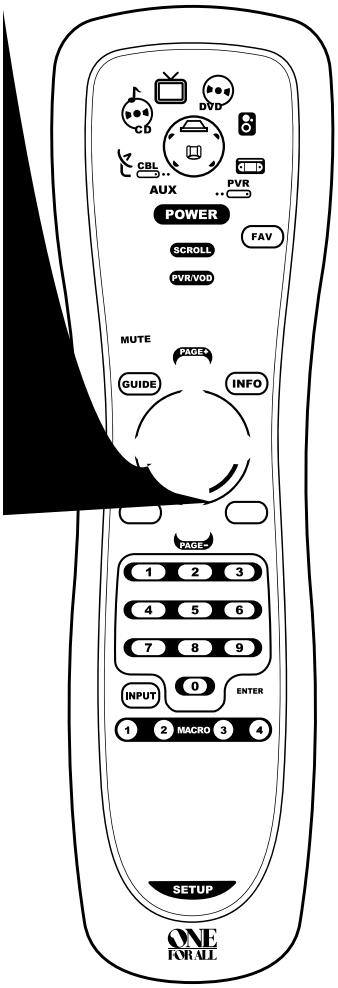
AUDIO PRESETS MENU



Pressing **SCROLL** once (on the *AUDIO Menu*, as shown on the previous page, right side), displays the *AUDIO Presets Menu* screen. Use these keys to remotely access your Audio Receiver's or Amplifier's preset stations.

Pressing **SCROLL** once more returns the display to the *AUDIO Main Menu* screen (as shown on page 32, right side).

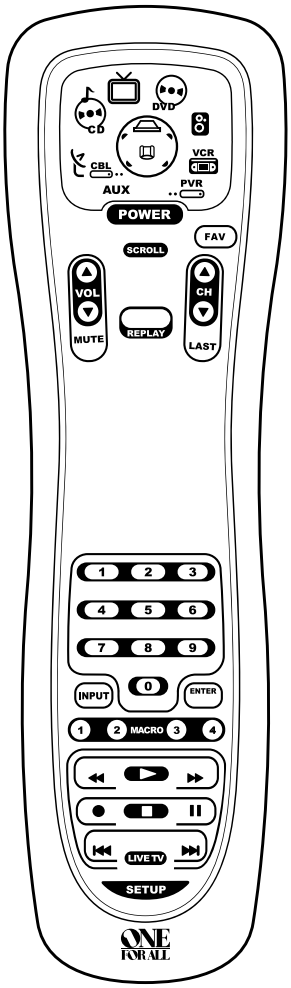
AUX MAIN MENU



Pressing **AUX** once displays the *AUX Main Menu* screen. After device programming, use these keys to remotely control all your device's common features, such as volume and channels, and menu, guide, and navigation functions.

Pressing **SCROLL** once will display a secondary *AUX* menu (on shown on the next page, left side).

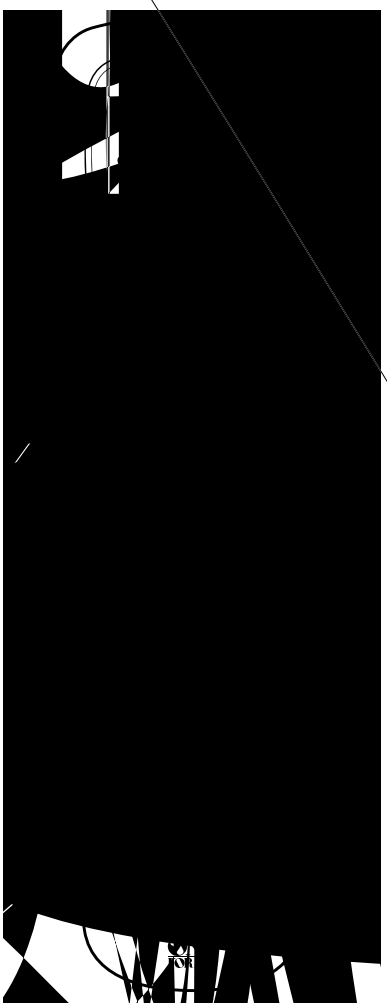
AUX PVR/VOD MENU



Pressing **SCROLL** once (on the *AUX Main Menu*, as shown on previous page, right side) displays the *AUX PVR/VOD Menu* screen. Use these keys to remotely control all your device's VOD and PVR functions, such as transport keys, replay, and live TV.

Pressing **SCROLL** once more returns the display to the *AUX Main Menu* screen (as shown on the previous page, right side).

CBL/SAT MAIN MENU



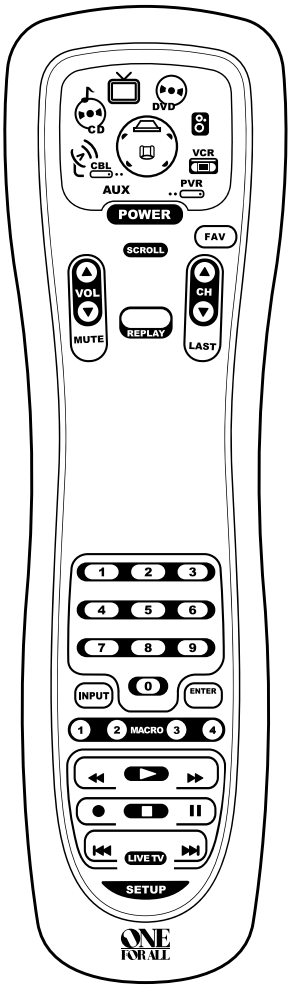
Pressing **CBL/SAT** once displays the *CBL/SAT Main Menu* screen. After Cable Box or Satellite Receiver programming, use these keys to remotely control all common features, such as volume and channels, and menu, guide, and navigation functions.

Pressing **SCROLL** once will display a secondary *CBL/SAT* menu (on shown on the next page, left side).

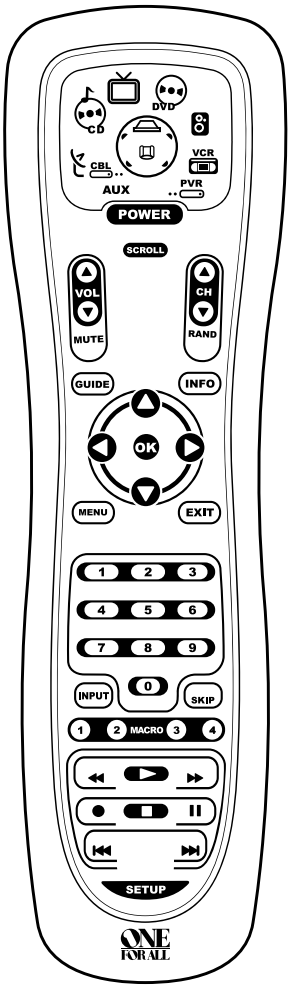
OFA Kameleon UG 5/8/03 3:23 PM Page 36

DEVICE MENU SCREENS (cont'd)

CBL/SAT PVR/VOD MENU



CD MAIN MENU



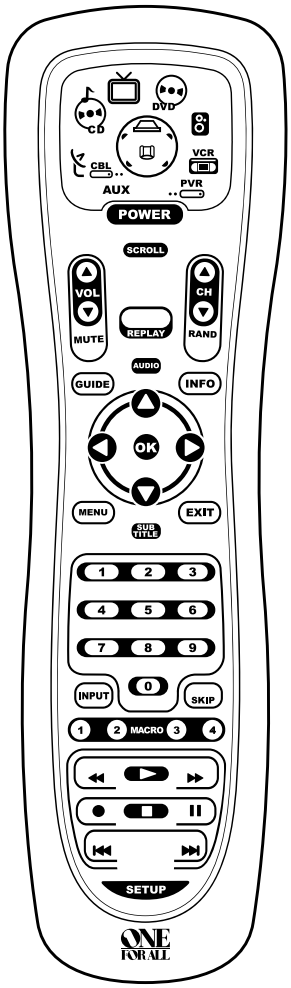
Pressing **SCROLL** once (on the *CBL/SAT Main Menu*, as shown on previous page, right side) displays the *CBL/SAT PVR/VOD Menu* screen. Use these keys to remotely control all your device's VOD and PVR functions, such as transport keys, replay, and live TV.

Pressing **SCROLL** once more returns the display to the *CBL/SAT Main Menu* screen (as shown on the previous page, right side).

Pressing **CD** once displays the *CD Main Menu* screen. After device programming, use these keys to remotely control all your CD player's common features, such as transport keys and skip, menu, and random functions.

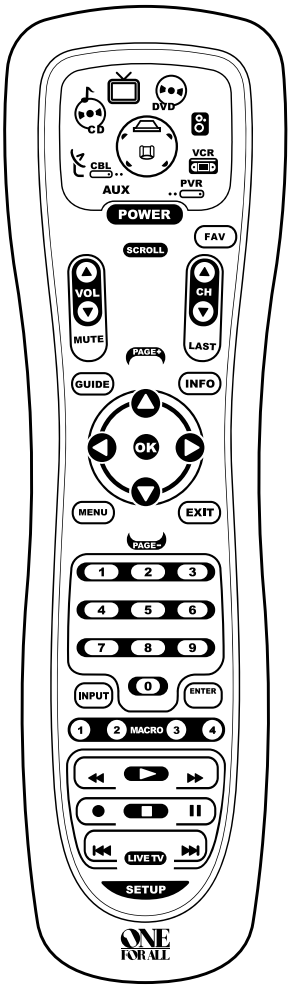
OFA Kameleon UG 5/8/03 3:23 PM Page 37

DVD MAIN MENU



Pressing **DVD** once displays the *DVD Main Menu* screen. After device programming, use these keys to remotely control all your DVD player's common features, such as transport keys and menu, navigation, subtitle, and audio functions.

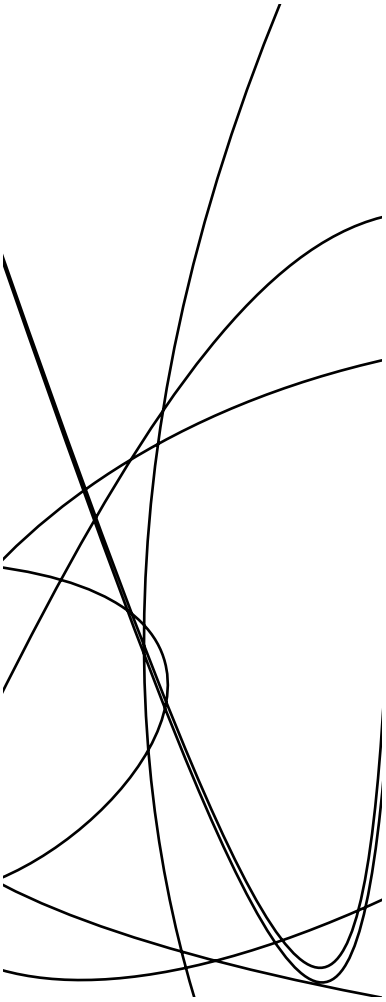
HOME THEATER MAIN MENU



After mode programming, pressing **Home Theater** once displays the *Home Theater Main Menu* screen. Use these keys to remotely access all common features and functions of your home theater system. For details, see *Using The Home Theater Mode* on page 12.

DEVICE MENU SCREENS (cont'd)

PVR MAIN MENU



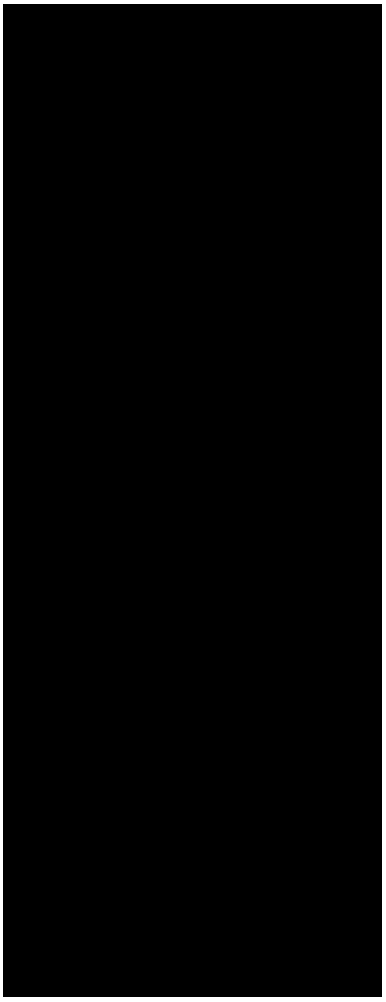
Pressing **PVR** once displays the *PVR Main Menu* screen. After device programming, use these keys to remotely control all your PVR's (or DVR's) common features, such as transport keys and menu, guide, navigation, replay, and live TV functions.

TV MAIN MENU

Pressing **TV** once displays the *TV Main Menu* screen. After device programming, use these keys to remotely control all your TV's common features, such as volume and channels, and last channel, menu, and information/display functions.

Pressing **SCROLL** one or more times will display secondary *TV* menus (see the next page).

TV MENU



Pressing **SCROLL** once (on the *TV Main Menu*, as shown on previous page, right side) displays the *TV Menu* screen. Use these keys to remotely control all your TV's common menu features.

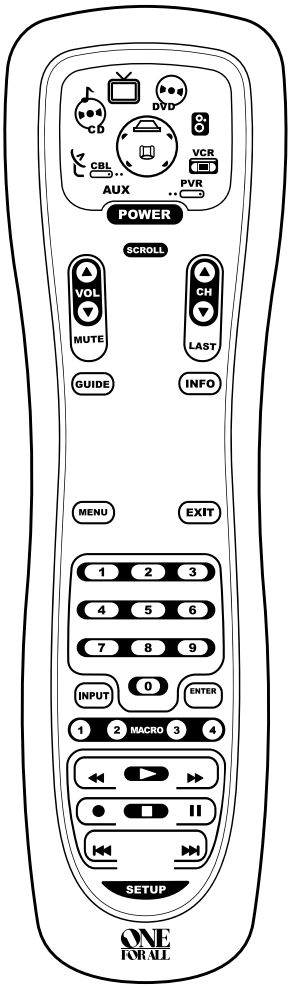
TV PIP MENU

Pressing **SCROLL** once (on the *TV Menu*, as shown on the left) displays the *TV PIP Menu* screen. Use these keys to remotely control all your TV's common PIP features.

Pressing **SCROLL** once more returns the display to the *TV Main Menu* screen (as shown on the previous page, right side).

DEVICE MENU SCREENS (cont'd)

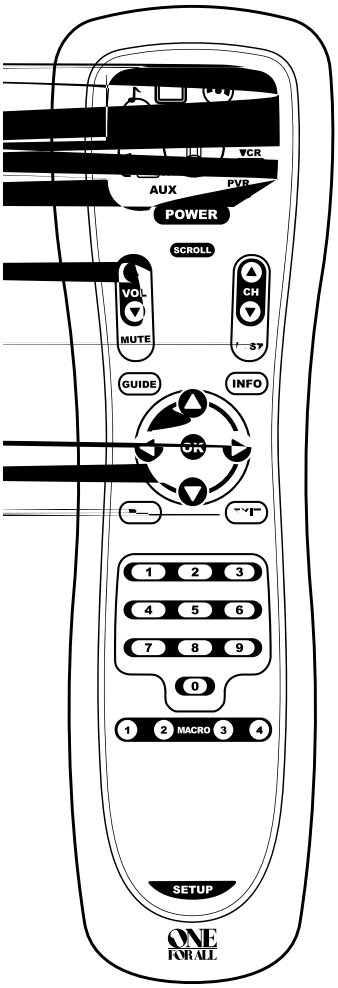
VCR MAIN MENU



Pressing **VCR** once displays the *VCR Main Menu* screen. After device programming, use these keys to remotely control all your TV's common features, such as volume and channels, and last channel, menu, and information/display functions.

Pressing **SCROLL** once will display a secondary *VCR* menu (on the right).

VCR MENU



Pressing **SCROLL** once (on the *VCR Main Menu*, as shown on the left) displays the *VCR Menu* screen. Use these keys to remotely control all your VCR's common features.

Pressing **SCROLL** once more returns the display to the *VCR Main Menu* screen (as shown on the left).

OFA Kameleon UG 5/8/03 3:23 PM Page 41

CUSTOMER SUPPORT

For assistance, please contact us in any of the following ways:

- **E-mail: ofasupport@ueic.com**
- **Internet: http://www.oneforall.com**
- Consumer Help-Line: (330) 405-8620

INSTRUCTIONS TO THE USER

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiated radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet or a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

LIMITED WARRANTY

Universal Electronics warrants, to the original purchaser only, that this product will be free from defects in materials and workmanship, under normal use, for ninety (90) days from the date of original purchase.

This limited warranty is valid only on Universal Electronics product purchased and used in the United States of America or Canada, and does not apply to products used for industrial or commercial purpose.

The limited warranty does not cover damage or failure caused by products or services not supplied by Universal Electronics , or which result from accident, misuse, abuse, neglect, mishandling, misapplication, faulty installation, set-up adjustment, improper maintenance, alteration, maladjustment of consumer controls, modifications, commercial use, or that is attributable to acts of God.

There are no express warranties except as listed above. Universal Electronics SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

To obtain warranty service for a defective product during the warranty period, please return the product, preferably in the original carton, along with your purchase receipt, to the store of original purchase. A note detailing the complaint would be helpful. The store, at its option, will replace or repair this product if found to be defective.

For warranty information only, call:
(330) 405-8655

BATTERY USE AND SAFETY

- Dispose of old batteries promptly and properly.
- Do not burn or bury batteries.
- Use only new batteries of the required size.
- Do not mix old and new batteries, different types of batteries (e.g., standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- If you do not plan to use the remote control for an extended period, remove the batteries. They can leak chemicals that can destroy electronic parts.

ADDITIONAL INFORMATION

Kameleon is a trademark (registration pending) of Universal Electronics.

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The OFA Kameleon 8-Device Remote (URC-9960) is compatible for use in North America, excluding Mexico.

URC-99960B00 05/03

OFA Kameleon UG 5/8/03 3:23 PM Page 43

OFA Kameleon UG 5/8/03 3:23 PM Page 44

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